

CLAIMS

We claim the following:

1. A tissue localizing device adapted for deployment within tissue of a
5 human patient comprising:
a locator element, the locator element having a distal tip, a curved
anchoring portion having a non-circular cross-section, and a proximal shoulder;
and
one or more anchoring tabs extending from the locator element.
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2. The device of claim 1 wherein the curved anchoring portion has a
cross-section having a width greater than its height.
3. The device of claim 1 wherein the curved anchoring portion forms a
15 loop.
4. The device of claim 1 wherein the anchoring tabs extend from the
shoulder.
- 20 5. The device of claim 1 wherein the anchoring tabs extend from the
anchoring portion at a location distal to the shoulder.

6. The device of claim 1 wherein the anchoring tabs extend within a plane defined by the locator element.

5 7. The device of claim 1 wherein the anchors extend outside a plane defined by the locator element.

8. The device of claim 1 wherein the locator element is formed of a superelastic material.

10 9. The device of claim 1 wherein the locator element is formed of a shape memory alloy.

10. The device of claim 1 further comprising a flexible elongate lead extending from the shoulder.

15 11. The device of claim 10 wherein the flexible elongate lead further comprises a flexible wire.

12. The device of claim 10 wherein the flexible elongate lead is
20 integral to the locator element.

13. A delivery device for delivering the tissue localization device of claim 1, the delivery device comprising:

a housing having a housing lumen and a longitudinal slot in
communication with the housing lumen

5. a pusher slidably disposed in the housing lumen and adapted to receive the
shoulder of the tissue localization device of claim 1 and having a control lever
extending through the housing slot;

a delivery tube affixed to the housing and having a delivery tube lumen
adapted for slidably receiving the pusher and the tissue localization device of
claim 1.

10 14. The delivery device of claim 13 wherein said delivery tube lumen
is configured to slidably receive two or more tissue localization devices according
to claim 1.

15 15. The delivery device of claim 14 wherein said delivery tube lumen
is further configured such that said two or more tissue localization devices
according to claim 1 can be slidably received within the delivery tube lumen at
relative angles to one another.

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